## INTERNATIONALSEARCHREPORT

International application No.

PCT/JP2004/014873

A.	CLASSIFICATION	OFSUBJECTMATTER
Int.Cl	7 H01L33/00,	H01S5/343
<b>A</b>		Notice of the Control of the Control

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl7 H01L33/00, H01S5/00-5/50

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Japanese Utility Model Gazette 1922-1996, Japanese Publication of Unexamined Utility Model Applications 1971-2004, Japanese Registered Utility Model Gazette 1994-2004, Japanese Gazette Containing the Utility Model 1996-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
х	JP 2002-043618 A (MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD) 2002.02.08,[0058],[0064]-[0098],Fig.3	1-4,6,8-11,1 9-21,27-29		
Y	(Family:none)	12-18,22,30		
Y	JP 2003-229645 A (NIHON DENKI CO., LTD.) 2003.08.15,[0038],[0040]-[0061] & WO 2003/065526 A1	12-18		
Y	JP 2001-102629 A (NICHIA CORPORATION) 2001.04.13,[0009],[0033]-[0054] (Family:none)	12-18		
Y	JP 2002-133925 A (SANKEN ELECTRIC CO., LTD.) 2002.05.10,all pages, all figures (Family:none)	22,30		

	Further documents are listed in the continuation of Box C.		\$	See patent family annex.		
* Special categories of cited documents:  "A" document defining the general state of the art which is not considered to be of particular relevance  "E" earlier application or patent but published on or after the international filing date  "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  "O" document referring to an oral disclosure, use, exhibition or other		<ul> <li>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</li> <li>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such</li> </ul>				
"P"	means document published prior to the international filing date but later than the priority date claimed	"&"	combination being obvious to a person skilled in the art			
Date of the actual completion of the international search  15.12.2004		Date of mailing of the international search report  11.1.2005				
Name and mailing address of the ISA/JP  Japan Patent Office		Authorized officer TOMOHISA TSUCHIYA  2K 3412			3412	
3-4-3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan		Telephone No. +81-3-3581-1101 Ext. 3253				